



City of Long Beach

Building Back Stronger, Smarter, Safer



Resiliency: Tackling Coastal Climate Change Head On

Resiliency Actions Thus Far. . .

Building

- ✓ Fast Track Solar Permitting
- ✓ Encouraging Flood Resilient Homes – Hundreds of homes are now FEMA compliant



Infrastructure

- ✓ Sustainable and Resilient Boardwalk Reconstruction – 30+ year life span and retaining wall
- ✓ Energy Efficient Retrofits including 860 new lighting fixtures that use 75% less energy and last 30-50 times longer saving the City 1,309 kilowatt hours
- ✓ Hardening critical infrastructure throughout the City

Beach & Bay Protection

- ✓ Fully funded Army Corp. of Engineers project to protect the beach front
- ✓ Bulkheading and Tide Flex Valves for our north shore
- ✓ Exploring Army Corp. of Engineers project for the north shore looking at best practice from The Netherlands and world-wide



Community Development

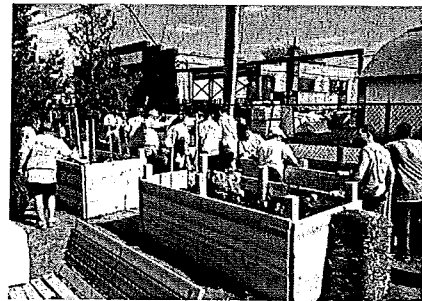
- ✓ Environmental Advisory Board
- ✓ Comeback Crew – Community Cleanup Effort

Transportation

- ✓ Passed Complete Streets Resolution to facilitate resiliently upgrading transportation infrastructure
- ✓ Higher percentage of commuters walking, cycling and using public transit than the national average
- ✓ Additional bicycle racks to meet increasing demand for bike parking

Partnering with Sustainable Long Island

- ✓ Allowed for an unprecedented Facilitation of community involvement in the Boardwalk planning process
- ✓ Bay and Beach Clean-ups
- ✓ Magnolia Senior Center Community Gardens



Resiliency Agenda Going Forward. . .

- City Council Resolution - Taking the pledge to become a Climate Smart Community
- City Council Resolution - Furthering our commitment to solar energy by adopting the “Solar Energy System Fast Track Permit Application”
- Resiliency and Climate Adaptation Planning through participating in the NYS Community Reconstruction Zone (CRZ) process
- 50% more energy efficient bus fleet and lower emissions waste disposal fleets
- Energy efficient upgrades to public facilities that will amount to \$150,000 in savings to the City



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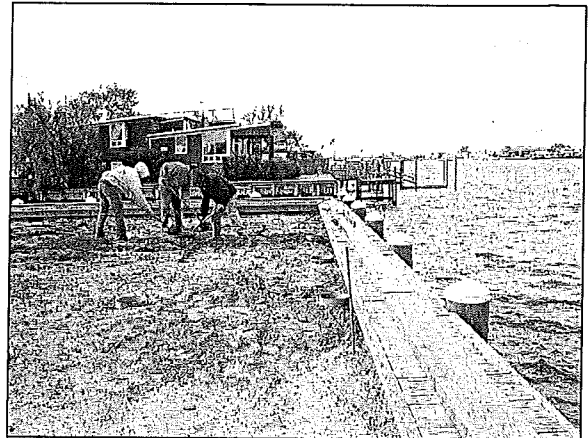
Bulkheading Program Proposal

August 20, 2013



Bulkheading: Safe, Strong, & Standardized

For too long, bayside flooding has gone unchecked and neglected with uneven and outdated bulkheads. As we know, much of the City's historical flooding comes from the bay, and doing nothing about it is not an option going forward. In the months since Superstorm Sandy, many of our residents have been dealing with the immense costs of rebuilding their homes and lives. For those who live by the bay, the costs become even more massive when one considers the damage done to their bulkheads. Damaged bulkheads can put the homeowner and their neighbors at high risk for future flood damage, and because of this, the City Council is excited to announce a new program to help residents get the bulkheading work they need done in a cost-effective manner that is safe, strong, and standardized.



The City will provide residents the opportunity for the following:

- ✓ Assistance with bulkheading permitting
- ✓ Affordable bulk pricing & long-term financing
- ✓ Standardization of protective construction at an elevation nine

Shoring up our Future

- The new program will give residents the opportunity to have the City, through the Department of Public Works, repair/replace their bulkheading so that it is safe, strong, and standardized.
- The Public Works Department will put out a bid to not only retain a contractor to do the bulkhead installation, but they will also do a bid to make available consulting services to assist residents with DEC permit applications – making sure the solution is standardized and expedited.
- The cost of the work will be financed by the City, and repayment will be by either annual voucher, or can be added to a resident's tax bill.
- The payments will stay with the property, so if the resident sells, the payment remains with the tax bill until the City is made whole.
- Residents will only pay what the City is required to pay back in debt service annually for the amount their property work cost.
- Payments can be spread out over as many as 20 years, making this more affordable than laying out tens of thousands of dollars up front for this work to be completed – taking the immediate burden off of taxpayers.

This program is something that the City can do on its own, will pay for itself and will have a lasting positive impact for both property owners and the City as a whole.



City of Long Beach

2013 - 2017

Capital Improvement Plan Summary



The 2013 Capital Budget and 2014–2017 Capital Improvement Plan advances projects, in a priority order, that improve the health, safety, and quality of life for City residents. Additionally, the Capital Improvement Plan is designed to make government more efficient and responsive, as well as improve our community.

Priorities include:

- flood-resistant drainage improvements
- rehabilitation of roadways
- the construction and redevelopment of park facilities
- upgrades to City facilities

Even as critical repairs are made in the wake of Superstorm Sandy, there are still many forward-looking infrastructure issues that need to be addressed.

Highlights

Our 2012 plan highlighted projects that were “shovel ready.” In that plan, 22 projects were identified. As of April 2013, 6 of those projects are either complete or substantially complete, and another 13 are currently underway. All of this is being done even with the additional workload resulting from Superstorm Sandy. This administration is committed to delivering projects as requested, on time and on budget. The 2013 capital program calls for 22 identified items, and continues delivering the City Council mandate to identify projects that will improve our infrastructure, increase our quality of life and decrease our maintenance costs.

In 2013, the City has proposed approximately \$4 million in general fund capital projects. In addition to that number, the City anticipates an additional \$2.73 million in other funding (grants, State DOT, Federal matching dollars) to assist in funding all of the items in this proposal. Over the five year capital improvement plan, the Department of Public Works has identified \$28.37 million for general fund capital projects, including funds that have already been allocated in previous years.

In addition to the general fund capital projects in 2013, the City has proposed additional funds of \$1.025 million for sewer and water projects.

After review of our previous plan, and review of the projects impacted by the storm, our capital needs for the next 5 years have changed significantly. Additionally, discussions with other municipal agencies have changed the projected path of other projects.

Major projects in 2013 include:

- Road improvements throughout the City
- Bulkhead replacement
- New tide flex valve installation
- Park improvements at Leroy Conyers Park
- Curb rehabilitation and replacement throughout the City
- Sewer upgrades at various locations
- New buses and para-transit vehicles
- 4 new sanitation trucks

Category A: Debris Removal

Debris Removal is the clearance, removal, and/or disposal of items such as trees, woody debris, sand, mud, silt, gravel, building components, wreckage, vehicles, and personal property.

Category B: Emergency Protective Measures

Emergency Protective Measures are actions taken by Applicants before, during, and after a disaster to save lives, protect public health and safety, and prevent damage to improved public and private property. Emergency communications, emergency access and emergency public transportation costs may also be eligible.

Category C: Roads and Bridges

Roads (paved, gravel, and dirt) are eligible for permanent repair or replacement under the Public Assistance Program, unless they are Federal-aid roads. Eligible work includes repair to surfaces, bases, shoulders, ditches, culverts, low water crossings, and other features, such as guardrails. Damage to the road must be disaster-related to be eligible for repair. In addition, repairs necessary as the result of normal deterioration, such as "alligator cracking," are not eligible because it is pre-disaster damage.

Category D: Water Control Facilities

Water control facilities include dams and reservoirs, levees, lined and unlined engineered drainage channels, shore protective devices, irrigation facilities, and pumping facilities.

Category E: Buildings and Equipment

Buildings, including contents such as furnishings and interior systems such as electrical work, are eligible for repair or replacement under the Public Assistance Program. In addition to contents, FEMA will pay for the replacement of pre-disaster quantities of consumable supplies and inventory. Removal of mud, silt, or other accumulated debris is eligible, along with any cleaning and painting necessary to restore the building.

Category F: Utilities

Typical Utilities include:

- Water treatment plants and delivery systems
- Power generation and distribution facilities, including generators, substations, and power lines
- Sewage collection systems and treatment plants

Category G: Parks, Recreational Facilities, and Other Items

Repair and restoration of parks, playgrounds, pools, cemeteries, and beaches. This category also is used for any work or facility that cannot be characterized adequately by Categories A-F. Eligible publicly-owned facilities in this category include: playground equipment, swimming pools, bath houses, tennis courts, boat docks, piers, picnic tables, and golf courses.

Anticipated Sources of Revenue

Application Title	FEMA Category	Description	TOTAL
Streets, Lights, sidewalks & curbs	C	Street, light, sidewalk & curb repairs throughout City damaged by storm	\$ 250,000.00
Rec Center Bldgs - Magnolia Day Care/Senior Center, Pool, Gym	E	Flood damage to classrooms, offices, lobby, weight room, cardio room, locker rooms, pool filtration system, etc.	\$ 2,871,000.00
Emergency Protective Measures-Category B - Waste Water Treatment Plant, Water Purification Plant, Sewer, and Water Transmission	B	Emergency Protective Measures associated with WWTP, WPP, Sewer and Water Transmission i.e.	\$ 550,000.00
Sewers	F	Sewer System repairs	\$ 120,000.00
Category B - Other Staffing and costs	B	Costs associated with sheltering, information dispersal after storm to residents, staffing points of distribution, generator for City Hall, etc.	\$ 350,000.00
Fire Dept Emergency Apparatus Lease	B	Emergency rental of (2) pieces of fire apparatus to compensate for vehicles lost as a result of the event.	\$ 63,999.00
Rec Center - athletic field & skate rink	G	Repair of Synthetic Turf & Hockey Rink at the LB Rec Center.	\$ 275,828.73
Bulkhead	D	Repair debris damaged bulkhead	\$ 120,000.00
Historic Rdwy	C	Brick Replacement on 100, 200, 300, and 600 block of West Penn	\$ 888,000.00
Sand filtration and put back to beach.	G	Sand cleaning and replacement to beach.	\$ 7,850,000.00
Berm Tear Down	A	Temporary protective berm tear down after storm season	\$ 11,882.86
Protective sand berm	B	Sand berm build (Nov.) after Sandy	\$ 60,670.70
City Hall PD & FD	E	Damage to building offices and apparatus/equipment	\$ 422,000.00
Police Auxiliary Bldg.	E	Flood damaged first floor of building and contents	\$ 87,209.04
Animal Shelter	E	flood damage to entire building and contents	\$ 97,000.00
FD bldgs. Indiana & Maple Stations	E	flood damage to apparatus floors, bathrooms, staging areas, equipment, etc.	\$ 200,000.00
Municipal Garage	E	Damage to lifts, tools, stock, building, etc.	\$ 1,060,000.00
LIRR parking garage	E	Flood damage to parking lot.	\$ 20,000.00
150 West Pine Street	E	flood damage to building - offices, contents, tools, roof, etc	\$ 323,000.00
MLK Center	E	flood damage to entire first floor and contents (gym, kitchen, classrooms, etc)	\$ 450,000.00
West end Community Center	E	flood damage to entire first floor and contents (kitchen, classrooms, etc)	\$ 372,000.00
Ice arena	G	Damage to floor, ice surface, mechanicals, locker rooms, offices, lobby, etc.	\$ 320,000.00
Playgrounds	G	Flooded parks and damaged playground equipment citywide	\$ 750,000.00
Security fencing	B	Security fencing during construction of Boardwalk and sand berm walk over repairs.	\$ 500,000.00
Parking lots and mason walls	C	Repair of flooded parking lots and perimeter mason walls.	\$ 250,000.00
Debris Removal	A	4333501 - Citywide Debris Removal - above what was originally received by City	\$ 5,000,000.00
Water Transmission System	F	Main and house lines throughout City; shut and cuts, main breaks, etc.	\$ 400,150.31
Drinking Water Treatment Plant, Wells and Fire Hydrants	F	Damage to generators, electrical equipment, heating equipment, hydrants, etc.	\$ 1,600,000.00
Wastewater Treatment Plant & Pump Stations	F	Roosevelt, NY, and Indiana Pump Station Repair. WWTP Repairs.	\$ 2,700,000.00
Dune Walkovers	G	Replace West End and East End Dune Walkovers	\$ 2,800,000.00
Chain Link Fencing	G	Replace chain link fencing - various locations	\$ 150,000.00
Vehicles	E	Blue Book Values of Lost Vehicles	\$ 500,000.00
Water and Sewer Fees			\$ 6,687,259.36
TOTAL			\$ 38,100,000.00